

ABSTRACT OF THE DISCLOSURE

A disk controller has a channel adapter having a connection interface to a host computer or a disk drive; a memory adapter for temporarily storing data to be transferred between the host computer and disk drive; a processor adapter for controlling operations of the channel adapter and memory adapter; and a switch adapter for configuring an inner network by interconnecting the channel adapter, memory adapter and processor adapter, wherein the channel adapter, memory adapter, processor adapter and switch adapter each include a DMA controller for performing a communication protocol control of the inner network; and packet multiplex communication is performed among the DMA controllers provided in the adapters. The disk controller can realize a high transfer efficiency and a low cost while retaining a high reliability.